

AMENDMENTS TO THE CLAIMS

Claims 1-36 (canceled).

Claim 37 (currently amended): A device for the treatment of substrates, comprising:

a radiofrequency power supply;

an antenna connected to said radiofrequency power supply;

an energy absorbing species; and

a reactant.

~~a means for inductively applying said radiofrequency power supply.~~

Claim 38 (currently amended): The device of claim 37, wherein at least one of the substrates are biologicals, biologically active materials, is a tissue[[s]], or a cell[[s]], a protein, a lipid, a nucleic acid, or a carbohydrate.

Claim 39 (original): The device of claim 37, wherein said substrates are *in vitro*.

Claim 40 (original): The device of claim 37, wherein the power supply generates radiofrequency energy from about 20KHz to about 40GHz.

Claim 41 (canceled).

Claim 42 (currently amended): The device of claim ~~[[41]]~~ 37, wherein said antenna comprises at least one ~~coil~~ of electrical conductor.

Claim 43 (original): The device of claim 42, wherein said electrical conductor is solid wire or hollow tubing.

Claim 44 (currently amended): The device of claim ~~[[41]]~~ 37, wherein said antenna is of a substantially planar geometry or of a non-planar geometry ~~a single coil antenna, a double coil antenna or is~~ a solenoid antenna.

Claim 45 (original): The device of claim 37, wherein said energy absorbing species is a susceptor.

Claim 46 (original): The device of claim 37, wherein said energy absorbing species comprises matter with non-zero electrical conductivity.

Claim 47 (original): The device of claim 37, wherein said energy absorbing species is diamagnetic, paramagnetic, or ferromagnetic.

Claim 48 (original): The device of claim 37, wherein said energy absorbing species is an ionomer, a conducting polymer, an alkali metal, a transition metal, a lanthanide, or a metalloid or a combination thereof.

Claim 49 (original): The device of claim 48, wherein said energy absorbing species is colloidal or non-colloidal gold, silicon, cadmium selenide, cadmium sulfide, ruthenium, indium phosphide, indium arsenide, gallium arsenide, gold maleimide, gallium phosphide, hydroxysuccinimidyl gold, nickel-copper, nickel-palladium, palladium-cobalt, nickel-silicon, stainless steel, iron oxide, ferrite, titanium, Phynox, palladium/cobalt alloys, nitinol, titanium, titanium alloys, zirconium, gadolinium, aluminum oxide, dysprosium, cobalt alloys, nickel, gold, palladium, tungsten, or alloys of materials from this group.

Claim 50 (original): The device of claim 37, wherein said energy absorbing species is a metal nano- or micro-particle, a semiconducting nano- or micro-particle, a magnetic nano- or micro-particle, a polystyrene encapsulated metal particle, a buckminsterfullerene, or a liposome-encapsulated metal particle.

Claims 51-69 (canceled).

Claim 70 (new): The device of claim 37, wherein said reactant is a protein, a lipid, a nucleic acid, or a carbohydrate.

Claim 71 (new): The device of claim 37, wherein said reactant comprises a pharmaceutical or a diagnostic compound.